



Indiana Design Manual Rewrite Implementation Plan

Purpose:

The purpose of this implementation plan is to present in detail the organizational and decision making structure, schedule of activities, focus team memberships and team focus areas.

Reasons for the Indiana Design Manual Rewrite:

The current version of the Indiana Design Manual was majority written during the 1990's and is comprised of 87 chapters. Since its completion, many events have taken place which has impacted the validity of the current version. They are:

1. New INDOT organizational structure established in 2005.
2. New and/or revised national design policy and guidance.
3. New emphasis on a strong project management system.
4. New focus on "value added" projects designing "good" projects rather "great" projects.
5. A general perception that transportation projects are conservatively designed.
6. Dedicated staff within the Production Management Division is insufficient to effectively manage and update the current version of the Indiana Design Manual due to its size and context.

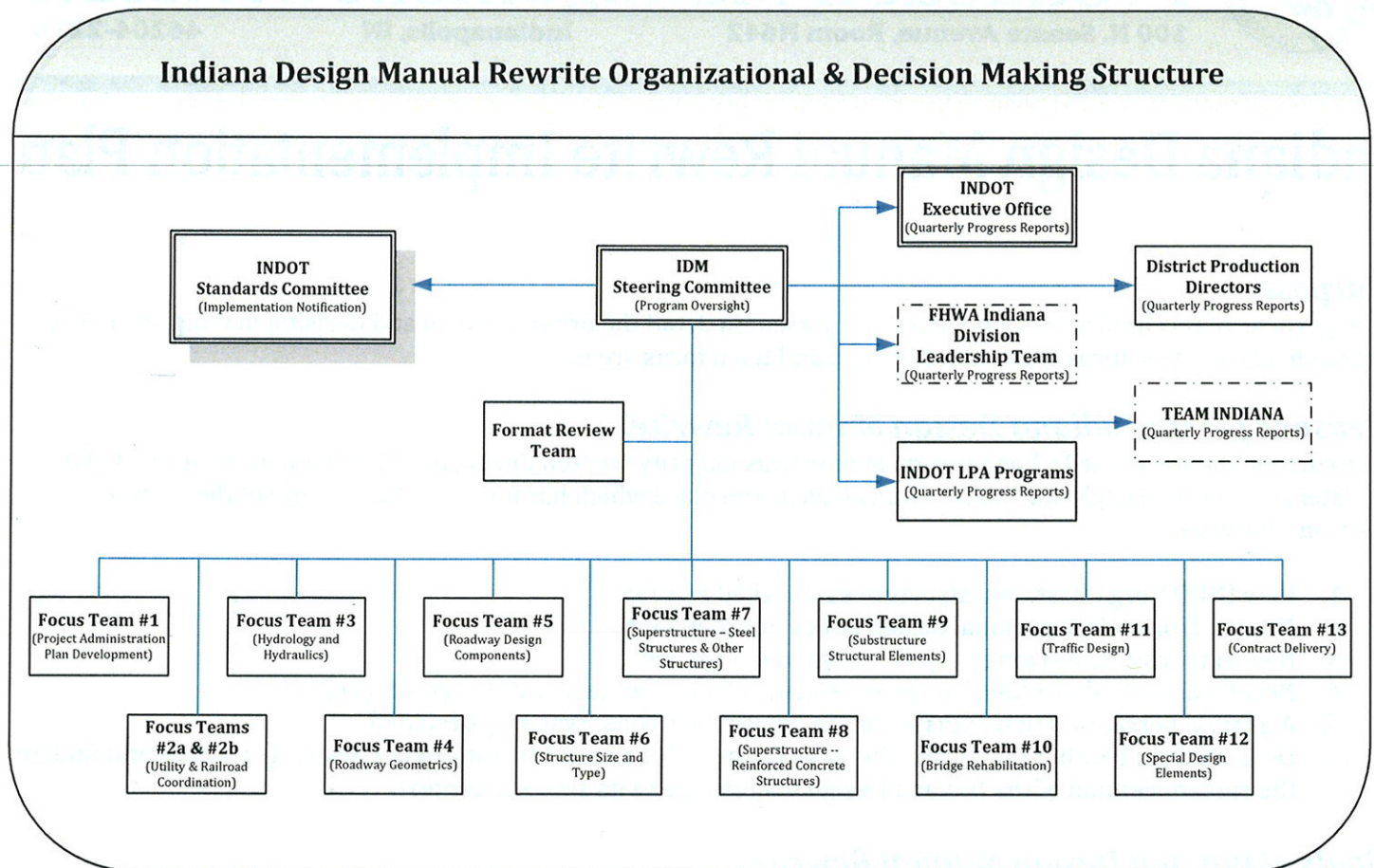
Goals of Indiana Design Manual Rewrite:

The measurement of success of this Indiana Design Manual Rewrite will not be fully realized unless the following goals are achieved.

1. Complete the Rewrite within a two year period (completion by December 31, 2010).
2. A Manual which is restructured and reduced in scope in order for sustainability with current staff resources.
3. A Manual which maximizes the opportunity for design flexibility and value added decision making.
4. A Manual which references foundation design manuals and guidance and presents only Indiana specific minimum factors and design criteria ranges.
5. A Manual which is written as a policy guide rather than a textbook.
6. Incorporate AASHTO "Guidelines for Geometric Design of Very Low-Volume Local Roads.
7. Incorporate and or reference all current applicable guideline documents.
8. A Manual which is interactive and user friendly to the maximum extent.
9. A Manual which is from a transportation designer perspective.

Organizational & Decision Making Structure:

The chart below illustrates the overall organizational and decision making structure for the Indiana Design Manual Rewrite.



1. Steering Committee:

The Steering Committee serves as the management / oversight team which will hold but not limited to monthly meetings to obtain scope and progress updates from the focus team leaders. The team also serves as the lead daily decision making authority to the focus teams and communication interface with the INDOT Executive Office, INDOT Standards Committee and FHWA Indiana Division. The Committee also reviews all documents prior to approval for publishing. The membership of the Steering Committee is:

Gary Mroczka – Director, Production Management Division, INDOT (Chair)
 Anne Rearick – Manager, Office of Structural Services, INDOT
 John Wright – Manager, Office of Roadway Services, INDOT
 Brad Steckler – Director, Program Engineering Division, INDOT
 Shakeel Baig - Production Director, Crawfordsville District, INDOT
 Ernie Stoops – Design Manager, Vincennes District, INDOT
 Dennis Lee – Transportation Engineer, FHWA Indiana Division
 Keith Hoernschemeyer – Bridge Engineer, FHWA Indiana Division
 Troy Jessup – RW Armstrong
 Phil Kuntz – Janssen and Spaans Engineering

Resource (Schedule Analyst):

Kate Francis - Operational Analyst, Production Management Division, INDOT

Task Schedule:

ID	Steering Committee	Start	Finish	Q1 09			Q2 09			Q3 09			Q4 09			Q1 10			Q2 10			Q3 10			Q4 10		
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Implementation Plan Development	2/2/2009	3/31/2009																								
2	Implementation Plan Approval	3/31/2009	4/17/2009																								
3	Kick-Off Meeting	4/13/2009	4/17/2009																								
4	Monthly Oversight Meetings	5/20/2009	12/31/2010																								
5	Quarterly Meetings / Reports	5/20/2009	12/31/2010																								
6	INDOT Executive Progress Update	10/13/2009	10/12/2010																								
7	Fall 2009 Meeting / Report	10/13/2009	10/13/2009																								
8	Spring 2010 Meeting / Report	4/13/2010	4/13/2010																								
9	Fall 2010 Meeting / Report	10/12/2010	10/12/2010																								

2. Format Review Team:

The purpose of the Format Review Team is to establish the Manual's format which all Focus Teams will use and will review all drafts for compliance. The team will also serve as a technical resource for the Focus Teams as well as a communication resource with internal and external customers. The team will investigate opportunities to incorporate a Google Search Engine and hyperlinks (to other manuals, forms, standards, specification, etc.) into the document. The team leader will report back to the Steering Committee within 60 days. The membership of the Format Review Team is:

Anthony Uremovich, Standards Team Leader, INDOT Office of Structural Services
Susan Hines, INDOT Office of Structural Services
Dan McQueen, INDOT Office of Structural Services

Task Schedule:

ID	Format Review Group	Start	Finish	Q1 09			Q2 09			Q3 09			Q4 09			Q1 10			Q2 10			Q3 10			Q4 10		
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Kick-Off Meeting	4/13/2009	4/17/2009																								
2	Monthly Oversight Meetings	5/20/2009	12/31/2010																								
3	Develop Standard Format	4/20/2009	7/2/2009																								
4	Investigate User Interactive Tools and Applications	4/20/2009	7/31/2009																								
5	Part 1 Chapter Reviews	11/16/2009	12/15/2009																								
6	Part 2 Chapter Reviews	5/17/2010	6/18/2010																								
7	Part 3 Chapter Reviews	11/15/2010	12/17/2010																								

3. Focus Teams:

The thirteen Focus Teams are responsible for the subject matter research, technical writing and training / implementation within one of the thirteen focus areas. These focus areas include:

1. Project Administration and Plan Development Procedures
2. Utility and Railroad Coordination
3. Hydrology and Hydraulics
4. Roadway Geometrics
5. Roadway Design Components
6. Structure Size and Type
7. Superstructure -- Steel Structures and Other Structures
8. Superstructure -- Reinforced Concrete Structures
9. Substructure Structural Elements and Retaining Walls
10. Bridge Rehabilitation
11. Traffic Design

12. Special Design Elements

13. Contract Delivery

Each Focus Team will be comprised of generally five or more members led by a team leader. The team leader is to plan and organize team activities and report progress to the Steering Committee on a monthly basis. Every other month, each Team Leader will provide progress orally to the Steering Committee on a rotational basis, even numbered teams during even months and odd numbered teams during odd numbered months. For the periods between oral presentations, a written report shall be submitted to the Steering Committee reporting progress. All Team Leaders are expected to attend all monthly meetings so consist and accurate communication is transmitted to all teams by the Steering Committee.

Focus Team Membership / Focus Areas:

1. Project Administration and Plan Development Procedures:

Team Leader: Russ Brittain, INDOT Office of Roadway Services
INDOT: Kathy Smutzer, Office of Roadway Services
INDOT: Ron McCaslin, Office of Structural Services
INDOT: Paul Schmidt, Office of Mobility and Congestion
INDOT District: Mike Eubank, Crawfordsville
INDOT: Jodi Coblentz, Local Programs
ACEC: Melissa Effinger, Janssen and Spaans Engineering
ACEC: Mary Jo Hamman - Baker
ACEC: Cristine Klika, PB Americas
FHWA Indiana Division: Bren George, Transportation Engineer
FHWA Indiana Division: Eryn Fletcher, Transportation Engineer

Focus Areas:

- Outlines designer interface with the Planning – Scoping process
- Value added decision making structure more focused on project intent.
- New LPA Process.
- Electronic Record Management System (ERMS)
- Project Submittal Requirements (Current Chapter 14)
- Value Engineering process.
- Design Exception process
- Risk Management / Risk Assessment
- Standardized Plan Sets
- New public involvement procedures / CSS

Deliverable Schedule:

[illegible]

2a. Utility Coordination:

Team Leader: Matt Thomas, Utility-Railroad Manager, Office of Real Estate
 INDOT: Joe Gunderson, Utility Engineer
 INDOT: Mike Buening, Utility – Railroad Engineer
 INDOT District: Larry Loveall, Greenfield District
 INDOT District: George Moffat, Crawfordsville District
 ACEC: Deborah Porter, Clark Dietz
 ACEC: Ken Slaninka, TBE
 FHWA Indiana Division: Bren George, Transportation Engineer

Focus Areas:

- Incorporate new business process / practices brought about with the promulgation of the new Indiana Administrative Rule and the new PDP.
- Revisit Utility Accommodations policy (if applicable).
- Revisit and update process for Extraordinary Cost Requests (if applicable).
- Revise District v. Central Office responsibilities and relationships.
- Utility Investigation and Relocation Oversight Decision Making Process
- Standard Agreements
- Betterment
- Website development

Deliverable Schedule:

ID	Focus Group #2 Utility and Railroad Coordination	Start	Finish	Q1 09			Q2 09			Q3 09			Q4 09			Q1 10			Q2 10			Q3 10			Q4 10		
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Kick-Off Meeting	4/13/2009	4/17/2009																								
2	Monthly Oversight Meetings	5/20/2009	1/29/2010																								
3	Detail Schedule of Tasks / Refined Focus Areas	4/20/2009	7/10/2009																								
4	Chapter Outline	6/22/2009	8/21/2009																								
5	Content Development	7/13/2009	11/20/2009																								
6	Chapter(s) Review / Revisions	11/23/2009	12/31/2009																								
7	Chapter(s) Approved for Publishing	1/20/2010	1/20/2010																								

2b. Railroad Coordination:

Team Leader: Matt Thomas, Utility-Railroad Manager, Office of Real Estate
 INDOT: Fred Hohl, Railroad Engineer
 INDOT: Tom Rueschhoff, Utility - Railroad Engineer
 INDOT: Doug Gannaway, Railroad Engineer
 INDOT District: George Moffat, Crawfordsville District
 ACEC: Kurt Fowerbaugh, Shrewsbury & Associates
 FHWA Indiana Division: Bren George, Transportation Engineer

Focus Areas:

- Update Railroad Coordination process
- Railroad Structures
- Standard Agreements
- Website
- Railroad Herald Standard Sheets

Deliverable Schedule:

ID	Focus Group #2 Utility and Railroad Coordination	Start	Finish	Q1 09			Q2 09			Q3 09			Q4 09			Q1 10			Q2 10			Q3 10			Q4 10		
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Kick-Off Meeting	4/13/2009	4/17/2009																								
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3	Detail Schedule of Tasks / Refined Focus Areas	4/20/2009	7/10/2009																								
4	Chapter Outline	6/22/2009	8/21/2009																								
5	Content Development	7/13/2009	11/20/2009																								
6	Chapter(s) Review / Revisions	11/23/2009	12/31/2009																								
7	Chapter(s) Approved for Publishing	1/20/2010	1/20/2010																								

3. Hydrology and Hydraulics:

Team Leader: Bill Schmidt, Hydraulics, Office of Structural Services

INDOT: Dale Sedler, Hydraulics, Office of Structural Services

INDOT: Shahriar Shahnaz, Hydraulics, Office of Structural Services

INDOT: John Bartolo, Hydraulics, Office of Structural Services

ACEC: Rick Rampone, HNTB Corporation

ACEC: Lenny Noens

ACEC: Jamie Stetzel, Bollinger, Lach & Assoc.

FHWA Resource: Keith Hoernschemeyer, Bridge Engineer

Focus Areas:

- Investigate the opportunities of systematic cost reductions due to over-design by current guidance.
- DNR Modeling Process
- Small Structures (Structures <20' span)
- Storm Sewer Design / Stormwater Storage Facilities
- Stormwater Treatment and Discharge

Deliverable Schedule:

ID	Focus Group #3 Hydraulics and Hydrology	Start	Finish	Q1 09			Q2 09			Q3 09			Q4 09			Q1 10			Q2 10			Q3 10			Q4 10		
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Kick-Off Meeting	4/13/2009	4/17/2009																								
2	Monthly Oversight Meetings	5/20/2009	8/27/2010																								
3	Research and Reconnaissance	4/20/2009	6/19/2009																								
4	Detail Schedule of Tasks / Refined Focus Areas	4/20/2009	7/10/2009																								
5	Chapter(s) Outline	6/22/2009	8/21/2009																								
6	Content Development (Hydraulics)	7/13/2009	11/20/2009																								
7	Chapter(s) Review / Revisions (Hydraulics)	11/23/2009	12/31/2009																								
8	Chapter(s) Approved for Publishing (Hydraulics)	1/20/2010	1/20/2010																								
9	Research and Reconnaissance (Erosion Control)	1/4/2010	2/19/2010																								
10	Content Development (Erosion Control)	2/8/2010	5/14/2010																								
11	Chapter(s) Review / Revisions (Erosion Control)	5/17/2010	6/18/2010																								
12	Chapter(s) Approved for Publishing (Erosion Control)	7/14/2010	7/14/2010																								

4. Roadway Geometrics:

Team Leader: Mohammad Bari, INDOT Office of Roadway Services

INDOT: Susan Gilbert, Office of Roadway Services

INDOT: Richard VanCleave, Office of Roadway Services

INDOT District: Asfahan Khan, Crawfordsville Design

ACEC: Kevin Rearick, RW Armstrong

ACEC: Julie Thurman, Janssen and Spaans Engineering

ACEC: Ron Nordmeyer, Schneider Corporation

FHWA Indiana Division: Tony Perkinson, Transportation Engineer
FHWA Indiana Division: Dennis Lee, Transportation Engineer

Focus Areas:

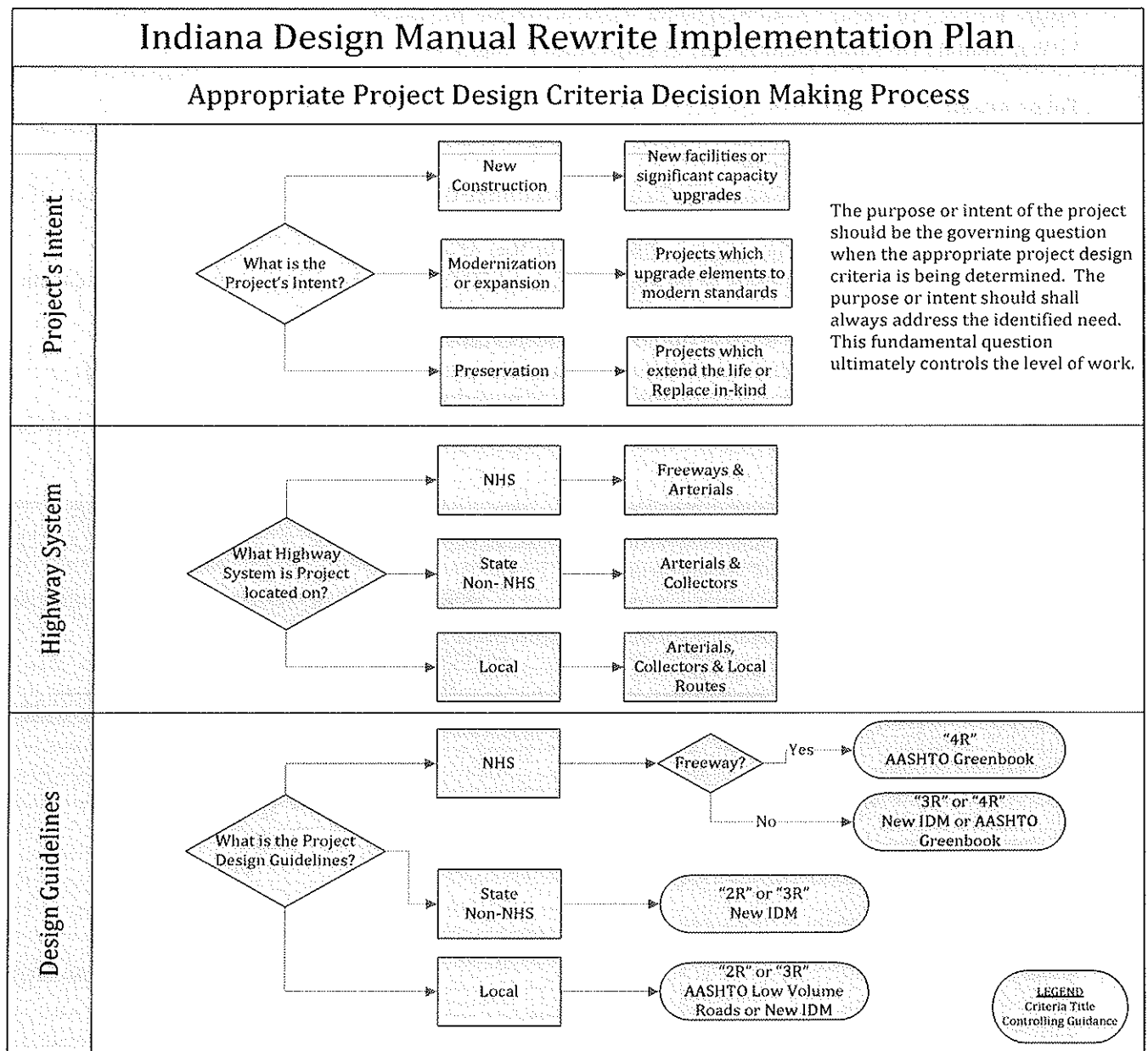
- New project design criteria decision making structure.
- Critical design elements.
- Restructuring of all Geometric Tables to maximize design flexibility opportunities by use of ranges.
- Review the value of railing offset.
- Review the value of paving to railing face in-lieu of earth.
- Realign Geometric Tables to be aligned with AASHTO Greenbook by functional classification.
- Incorporate three road systems (NHS, State non-NHS and Local).
- Combine clear zone, obstruction free and appurtenance free zone.
- Simplify geometric criteria decision making structure (NHS, State non-NHS and Local).
- Review the possibility of reducing the use of paved shoulders greater than 4' paved.
- Cable rail guidance.

Deliverable Schedule:

ID	Focus Group #4 Roadway Geometrics	Start	Finish	Q1 09				Q2 09				Q3 09				Q4 09				Q1 10				Q2 10				Q3 10				Q4 10						
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan										
1	Kick-Off Meeting	4/13/2009	4/17/2009																																			
2	Monthly Oversight Meetings	5/20/2009	1/31/2011																																			
3	Research and Reconnaissance	4/20/2009	6/19/2009																																			
4	Detail Schedule of Tasks / Refined Focus Areas	4/20/2009	7/10/2009																																			
5	Chapter(s) Outline	6/22/2009	8/21/2009																																			
6	Identification / Development of Quick Impact Items	7/13/2009	8/14/2009																																			
7	Production Technical Memorandum – Quick Items	8/19/2009	8/19/2009																																			
8	Content Development (Part 1)	7/13/2009	11/20/2009																																			
9	Chapter(s) Review / Revisions (Part 1)	11/23/2009	12/31/2009																																			
10	Chapter(s) Approved for Publishing (Part 1)	1/20/2010	1/20/2010																																			
11	Research and Reconnaissance (Part 2)	1/4/2010	2/19/2010																																			
12	Content Development (Part 2)	2/8/2010	5/14/2010																																			
13	Chapter(s) Review / Revisions (Part 2)	5/17/2010	6/18/2010																																			
14	Chapter(s) Approved for Publishing (Part 2)	7/14/2010	7/14/2010																																			
15	Research and Reconnaissance (Part 3)	7/6/2010	8/13/2010																																			
16	Content Development (Part 3)	8/2/2010	11/12/2010																																			
17	Chapter(s) Review / Revisions (Part 3)	11/15/2010	12/17/2010																																			
18	Chapter(s) Approved for Publishing (Part 3)	1/5/2011	1/5/2011																																			

Project Design Criteria Decision Making Structure:

The following table represents the decision making process for the development of the appropriate project design criteria for INDOT or LPA Federal-aid transportation projects. When establishing the appropriate design criteria for a project, the starting and fundamental question should be "What's the project's intent?" between the designer, project manager and the owner office. Then once the need and purpose is established, the decision making process continues by determinations of the 1) highway system; 2) functional classification; and then finally the 3) design guidance.



5. Roadway Design Components:

Team Leader: Peter Yao, INDOT Office of Roadway Services
 INDOT: Shariq Husain, Office of Roadway Services
 INDOT: Yadu Shah, Office of Roadway Services
 INDOT District: Mike Eubank, Crawfordsville District
 ACEC: Bill Hawkins, Strand
 ACEC: Greg Rominger, Burgess & Niple
 ACEC: Gary Simmons, Palmer Engineering
 FHWA Indiana Division: Tony Perkinson, Transportation Engineer
 FHWA Indiana Division: Dennis Lee, Transportation Engineer

Resource: Rick Phillabaum, INDOT Environmental Services

Focus Areas:

- Interchanges (Traditional and Newer Types)
- Ramp Geometric Design Criteria
- Pedestrian / Multi-use Trails / Sidewalks
- Design consistency between INDOT Standards and design vehicles
- Consistency with INDOT Drive Permit Manual
- ADA Compliance
- S-Line Stop Controlled Design Criteria
- Erosion Control Design
- Storm Sewer Design

Deliverable Schedule:

ID	Focus Group #5 Roadway Design Components	Start	Finish	Q1 09			Q2 09			Q3 09			Q4 09			Q1 10			Q2 10			Q3 10			Q4 10		
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Kick-Off Meeting	4/13/2009	4/17/2009																								
2	Monthly Oversight Meetings	5/20/2009	8/27/2010																								
3	Research and Reconnaissance	4/20/2009	6/19/2009																								
4	Detail Schedule of Tasks / Refined Focus Areas	4/20/2009	7/10/2009																								
5	Chapter(s) Outline	6/22/2009	8/21/2009																								
6	Content Development (Part 1)	7/13/2009	11/20/2009																								
7	Chapter(s) Review / Revisions (Part 1)	11/23/2009	12/31/2009																								
8	Chapter(s) Approved for Publishing (Part 1)	1/20/2010	1/20/2010																								
9	Research and Reconnaissance (Part 2)	1/4/2010	2/19/2010																								
10	Content Development (Part 2)	2/8/2010	5/14/2010																								
11	Chapter(s) Review / Revisions (Part 2)	5/17/2010	6/18/2010																								
12	Chapter(s) Approved for Publishing (Part 2)	7/14/2010	7/14/2010																								

6. Structure Size and Type:

Team Leader: Niru Shah, INDOT Office of Structural Services

INDOT: Pradeep Desai, Office of Structural Services

ACEC: Steve Summerlot, Burgess & Niple

ACEC: Ben Borcharding, RW Armstrong

FHWA Indiana Division: Keith Hoernschemeyer – Bridge Engineer

Focus Areas:

- Bridge Opening (Wet, dry and railroad crossings)
- Bridge Width
- Minimum / Desirable Requirements
- Design Literature
- Tiered decision making process (Not one process fits all locations)
- 3 Sided Precast Structures
- Shop Drawing Approval Process

Deliverable Schedule:

ID	Focus Group #6 Structure Size and Type	Start	Finish	Q1 09			Q2 09			Q3 09			Q4 09			Q1 10			Q2 10			Q3 10			Q4 10		
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Kick-Off Meeting	4/13/2009	4/17/2009																								
2	Monthly Oversight Meetings	5/20/2009	8/27/2010																								
3	Research and Reconnaissance	4/20/2009	6/19/2009																								
4	Detail Schedule of Tasks / Refined Focus Areas	4/20/2009	7/10/2009																								
5	Chapter(s) Outline	6/22/2009	8/21/2009																								
6	Content Development (Part 1)	7/13/2009	11/20/2009																								
7	Chapter(s) Review / Revisions (Part 1)	11/23/2009	12/31/2009																								
8	Chapter(s) Approved for Publishing (Part 1)	1/20/2010	1/20/2010																								
9	Research and Reconnaissance (Part 2)	1/4/2010	2/19/2010																								
10	Content Development (Part 2)	2/8/2010	5/14/2010																								
11	Chapter(s) Review / Revisions (Part 2)	5/17/2010	6/18/2010																								
12	Chapter(s) Approved for Publishing (Part 2)	7/14/2010	7/14/2010																								

7. Superstructure -- Steel Structures and other Structures:

Team Leader: Naveed Burki, INDOT Office of Structural Services

INDOT: Phil Smock, Office of Structural Services

ACEC: Sean Porter, Parsons Transportation

ACEC: Burleigh Law, HNTB Corporation

ACEC: Mike McCool, Beam Longest and Neff

FHWA Indiana Division: Keith Hoernschemeyer – Bridge Engineer

Focus Areas:

- Seismic
- Wood
- INDOT AASHTO Code Interpretation
- Design Literature
- Pedestrian / Trail Structures over Roadways

Deliverable Schedule:

ID	Focus Group #7 Superstructure – Steel Structures and Other Structures	Start	Finish	Q1 09			Q2 09			Q3 09			Q4 09			Q1 10			Q2 10			Q3 10			Q4 10		
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Kick-Off Meeting	4/13/2009	4/17/2009																								
2	Monthly Oversight Meetings	5/20/2009	8/27/2010																								
3	Research and Reconnaissance	4/20/2009	6/19/2009																								
4	Detail Schedule of Tasks / Refined Focus Areas	4/20/2009	7/10/2009																								
5	Chapter(s) Outline	6/22/2009	8/21/2009																								
6	Content Development (Part 1)	7/13/2009	11/20/2009																								
7	Chapter(s) Review / Revisions (Part 1)	11/23/2009	12/31/2009																								
8	Chapter(s) Approved for Publishing (Part 1)	1/20/2010	1/20/2010																								
9	Research and Reconnaissance (Part 2)	1/4/2010	2/19/2010																								
10	Content Development (Part 2)	2/8/2010	7/16/2010																								
11	Chapter(s) Review / Revisions (Part 2)	7/19/2010	8/20/2010																								
12	Chapter(s) Approved for Publishing (Part 2)	9/1/2010	9/1/2010																								

8. Superstructure -- Reinforced Concrete Structures:

Team Leader: Randy Strain, INDOT Office of Structural Services

INDOT: Matt Starkey, Office of Structural Services

INDOT: Joe Talago, Office of Structural Services

ACEC: Mike Halterman, USI

ACEC: Brian Slagle, Janssen and Spaans Engineering
FHWA Indiana Division: Keith Hoernschemeyer – Bridge Engineer

Focus Areas:

- Bridge Decks
- RC Slab Bridges
- Seismic
- INDOT AASHTO Code Interpretation
- Design Literature
- Vandal Fence
- Accelerated Construction Techniques: Precast Deck Panels

Deliverable Schedule:

ID	Focus Group #8 Superstructure – Reinforced Concrete Structures	Start	Finish	Q1 09			Q2 09			Q3 09			Q4 09			Q1 10			Q2 10			Q3 10			Q4 10		
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Kick-Off Meeting	4/13/2009	4/17/2009																								
2	Monthly Oversight Meetings	5/20/2009	1/31/2011																								
3	Research and Reconnaissance	4/20/2009	6/19/2009																								
4	Detail Schedule of Tasks / Refined Focus Areas	4/20/2009	7/10/2009																								
5	Chapter(s) Outline	6/22/2009	8/21/2009																								
6	Content Development (Part 1)	7/13/2009	1/15/2010																								
7	Chapter(s) Review / Revisions (Part 1)	1/18/2010	2/25/2010																								
8	Chapter(s) Approved for Publishing (Part 1)	3/3/2010	3/3/2010																								
9	Research and Reconnaissance (Part 2)	1/4/2010	2/19/2010																								
10	Content Development (Part 2)	2/8/2010	11/12/2010																								
11	Chapter(s) Review / Revisions (Part 2)	11/15/2010	12/17/2010																								
12	Chapter(s) Approved for Publishing (Part 2)	1/5/2011	1/5/2011																								

9. Substructure Structural Elements:

Team Leader: Tony Cox, INDOT Office of Structural Services
INDOT: Tam Nguyen, Office of Structural Services
INDOT: Mir Zaheer, Office of Geotechnical Engineering
ACEC: Dave McDougall, HNTB Corporation
ACEC: Mike Eichenauer, Butler Fairman & Seufert
FHWA Indiana Division: Keith Hoernschemeyer, Bridge Engineer

Focus Areas:

- LRFD Design Interface / Coordination with Office of Geotechnical Engineering
- Retaining Walls (Reinforced Concrete, MSE, Sheet Piling, other types)
- Seismic
- Normal Substructure Shapes
- Spread Footings
- Pile Foundations
- Drilled Shaft Caisson Foundations
- Crashwalls
- INDOT AASHTO Code Interpretation
- Design Literature

Deliverable Schedule:

ID	Focus Group #9 Substructure Structural Elements	Start	Finish	Q1 09			Q2 09			Q3 09			Q4 09			Q1 10			Q2 10			Q3 10			Q4 10			
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
1	Kick-Off Meeting	4/13/2009	4/17/2009																									
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5	Chapter(s) Outline	6/22/2009	8/21/2009																									
6	Content Development (Part 1)	7/13/2009	1/15/2010																									
7	Chapter(s) Review / Revisions (Part 1)	1/18/2010	2/25/2010																									
8	Chapter(s) Approved for Publishing (Part 1)	3/3/2010	3/3/2010																									
9	Research and Reconnaissance (Part 2)	1/4/2010	2/19/2010																									
10	Content Development (Part 2)	2/8/2010	11/12/2010																									
11	Chapter(s) Review / Revisions (Part 2)	11/15/2010	12/17/2010																									
12	Chapter(s) Approved for Publishing (Part 2)	1/5/2011	1/5/2011																									

10. Bridge Rehabilitation:

Team Leader: George Snyder, INDOT Office of Structural Services
 INDOT: Stephanie Wagner, Office of Structural Services
 INDOT: Danny Wampler, Office of Structural Services
 INDOT: Dan Clark, Office of Structural Services
 ACEC: Seth Schickel, RW Armstrong
 ACEC: Janette Fulkerson, Wilbur Smith
 FHWA Indiana Division: Keith Hoernschemeyer, Bridge Engineer

Focus Areas:

- Bridge Inspection
- Load Rating and Strengthening
- Widening and Replace Bridge Elements
- Railing Upgrade or Replacement
- INDOT AASHTO Code Interpretation

Deliverable Schedule:

ID	Focus Group #7 Superstructure – Steel Structures and Other Structures	Start	Finish	Q1 09				Q2 09				Q3 09				Q4 09				Q1 10				Q2 10				Q3 10				Q4 10								
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	Kick-Off Meeting	4/13/2009	4/17/2009																																					
2	Monthly Oversight Meetings	5/20/2009	8/27/2010																																					
3	Research and Reconnaissance	4/20/2009	6/19/2009																																					
4	Detail Schedule of Tasks / Refined Focus Areas	4/20/2009	7/10/2009																																					
5	Chapter(s) Outline	6/22/2009	8/21/2009																																					
6	Content Development (Part 1)	7/13/2009	11/20/2009																																					
7	Chapter(s) Review / Revisions (Part 1)	11/23/2009	12/31/2009																																					
8	Chapter(s) Approved for Publishing (Part 1)	1/20/2010	1/20/2010																																					
9	Research and Reconnaissance (Part 2)	1/4/2010	2/19/2010																																					
10	Content Development (Part 2)	2/8/2010	7/16/2010																																					
11	Chapter(s) Review / Revisions (Part 2)	7/19/2010	8/20/2010																																					
12	Chapter(s) Approved for Publishing (Part 2)	9/1/2010	9/1/2010																																					

11. Traffic Design:

Team Leader: Alfredo Hanza, INDOT Office of Roadway Services
 INDOT: Prakash Patel, Office of Roadway Services
 INDOT: Shahpor Shahbahrami, Office of Roadway Services
 INDOT: Mike Holowaty, Office of Traffic Safety
 INDOT District: Bill Smith, Crawfordsville Traffic

INDOT: Joe Bruno, Office of Traffic Engineering
ACEC: Dave Henkel, RW Armstrong
ACEC: Tom Ford, Jacobs
ACEC: Mike Feltz, Major Engineering
FHWA Indiana Division: Karen Stippich, ITS / Operations Engineer

Focus Areas:

- Intersections
- Use of innovative intersection alternatives (Michigan U-turn, etc...)
- Incorporate Roundabout Intersection chapter
- Incorporate "Sign Design Guide".
- Obtain consistent statewide (all districts on the same page) design guidance for as many as possible traffic design related items.
- Revise guidance for sign lighting as a result of high reflective sheeting.
- Revisit the recommended use of signs bracketed to bridge structures.
- Revise to be aligned with current Indiana MUTCD.
- Maintenance of Traffic / TMP
- Interstate Lane Closure Policy
- Intelligent Transportation System (ITS) Design

Deliverable Schedule:

ID	Focus Group #10 Traffic Design	Start	Finish	Q1 09			Q2 09			Q3 09			Q4 09			Q1 10			Q2 10			Q3 10			Q4 10		
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Kick-Off Meeting	4/13/2009	4/17/2009																								
2	Monthly Oversight Meetings	5/20/2009	1/29/2010																								
3	Research and Reconnaissance	4/20/2009	6/19/2009																								
4	Detail Schedule of Tasks / Refined Focus Areas	4/20/2009	7/10/2009																								
5	Chapter Outline	6/22/2009	8/21/2009																								
6	Content Development	7/13/2009	11/20/2009																								
7	Chapter(s) Review / Revisions	11/23/2009	12/31/2009																								
8	Chapter(s) Approved for Publishing	1/20/2010	1/20/2010																								

12. Special Design Elements:

Membership of this focus group will be determined at a later date.

Focus Areas:

- Rest Areas
- Others to be determined during development of other focus areas.

13. Contract Delivery:

Team Leader: Walt Land, INDOT Office of Project Management
INDOT: Jim Brown, Office of Roadway Services
INDOT: Martha Chernet, Office of Structural Services
INDOT: Susan Languell, Contract Administration
INDOT District: Gary Bowser, Crawfordsville
ACEC: Cash Canfield, Structurepoint
ACEC: Mark Eckhert, Beam Longest and Neff
ACEC: Peter Flynn, Schneider Corporation
FHWA Indiana Division: Eryn Fletcher, Transportation Engineer
FHWA Indiana Division: Tony Perkinson, Transportation Engineer

Resource: Ron Heustis, INDOT Construction Management Division

Focus Areas:

- Incorporate all current checklists.
- New LPA Process.
- References to Environmental Manuals / Procedures (Permitting)
- Constructability Review Process
- Design Build Template / Process
- Environmental Commitment Database
- Cost Estimating Procedures

Deliverable Schedule:

ID	Focus Group #11 Project Contracting	Start	Finish	Q1 09			Q2 09			Q3 09			Q4 09			Q1 10			Q2 10			Q3 10			Q4 10		
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Kick-Off Meeting	4/13/2009	4/17/2009																								
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8	Chapter(s) Approved for Publishing	1/20/2010	1/20/2010																								

IDM Rewrite Implementation Plan
April 14, 2009

This document serves as the initial IDM Rewrite Implementation Plan which represents as the roadmap to successful completion and will serve as the benchmark against progress. This implementation plan will be reviewed each month during the Steering Committee Monthly Meetings to track progress against the benchmarks within this document. If a significant revision becomes necessary due to unforeseen scope or schedule changes, the Steering Committee chair will request a formal change.

Submitted by:

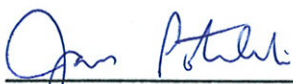


Gary Mroczka, Steering Committee Chair
Director, Production Management Division, INDOT

4/17/09

Date

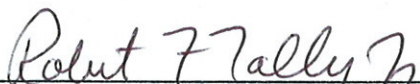
Approved by:



Jim Poturalski, Deputy Commissioner
Highway Management, INDOT

4/26/09

Date



Robert Tally, Division Administrator
FHWA Indiana Division

4/29/09

Date

